

Scientific American.

NEW YORK, FEBRUARY 3, 1855.

The Age of the World.

A question of great importance with divines and men of science at the present day, is that of the age of our planet, and the different changes which have taken place upon it, as related in Genesis. One class contend that the different acts of creation took place exactly as described in the first chapter of Genesis, in six solar days, and that all things were made out of nothing in that time. Another class believe that our planet was in existence for thousands of years prior to the first act recorded in Genesis, that it had undergone vast changes, and that it had been long in confusion, and was bereft of life, when the command went forth "Let there be light." This class also believe that the successive acts described in Genesis took place in six common days, furnishing the world with the exact orders of creation as there described. Another class believe that the successive acts of creation mentioned in Genesis, took place in the exact order there described, but that instead of the days there mentioned being solar days, they were indefinite periods of time—some of them of great length—perhaps sixty thousand years. This latter class embrace the greatest number of learned geologists and divines. In the last number of the *Bibliotheca Sacra*, the Rev. John O. Means, of East Medway, Mass., presents his views at great length on this subject, and takes the latter view of the question, namely: that the days mentioned in the first chapter of Genesis, if interpreted to mean indefinite periods of time, would reconcile both science and the Scriptures in every particular. He employs some strong arguments in favor of this view of the question. Thus, the sun, moon, and stars, are said to be created on the third day, therefore, the two previous days could not be one of our solar days, embracing one revolution of the earth on its axis in twenty-four hours, with the sun to rule the day and the moon to rule the night. This argument is incontrovertible. But what was the cause of light before the sun was created. He sees no difficulty in this. He says, "the material universe is full of light, ready to be worked at a word. Chemical action on a vaster scale than man can follow, is taking place every moment, and floods of light are poured forth. Combustion is attended with light as well as heat." "It may sound strange," he again says, "to say that the most intense light is to be found, not on the earth, but in it. The whole of the sun's rays which reach the earth, gathered to a focus, would not be so intensely light as the center of the globe. It seems pretty certain that within the crust of the earth, is a globe of fire, at least two thousand miles in diameter." This opinion costs neither him nor any man of science anything whether it be true or false, but he departs from reason and logic, by endeavoring to establish one hypothesis by setting up another. There are no positive proofs of the earth being a crusted ball of fire. We are not dependent on the sun for light, as he has clearly stated, but he does not seem to understand its true theory. It is produced by the vibrations of a subtle medium diffused throughout space. Our planet is self-luminous, but in a degree less so than the sun, for there is one glory of the sun, another of the moon, and another of the earth. Man's eyes are constructed to see objects only by a great quantity of intense light; but some beasts and fowls have their eyes constructed to range the forest and field by night as freely as man does during day, while during sunlight they can scarcely see at all. A tribe of Africans also—the Bosjesmen—remain in their caves during day, and search for their food during night. From habit, we presume, they have become nocturnal roamers—men-owls—thus showing that natural light belongs to our planet; the unceasing throbbings of its particles produce continual light; this was the way, no doubt, that light was pro-

duced in the early days of the earth. Hugh Miller brings forward some strong arguments in favor of the great age of our planet, and mentions a number of geological changes requiring tens of thousands of years to accomplish, which could not have taken place in the short period of six thousand years, as is believed by those who adhere to the solar six days interpretation of the Genesis narrative of the creation. Sir Charles Lyell believes that it must have taken 67,000 years to form the delta of the Mississippi, and

35,000 years for the Niagara river, to form its present channel from the Falls to Queens-town. Nearly all the eminent geologists believe this, and they consider they have facts to prove it, so strong, that they cannot be gainsayed. Mr. Means reasons strongly to prove that the meaning of the word day in the first chapter of Genesis is an indefinite period of time, and makes out a very strong case in favor of the world being perhaps a million years of age, according to theosaic account of creation.

More information may be obtained by letter addressed to Clappitt & Register, proprietors, No. 53 Holliday street, Baltimore, Md.

Saleratus in Bread.

In the N. Y. *Tribune* of the 24th ult., there is a sensible article by Dr. Alcott, of Auburn Dale, Mass., on the use of saleratus—in which he presents a number of facts to prove that the use of saleratus for domestic baking is dangerous to health and life, and that it has caused death in many instances. He mentions the case of a number of students at Williamstown College, Mass., who boarded in the house of an indigent female that used saleratus very freely in cooking, to make puddings, &c., light, which he believes led to the breaking out of a fearful disease among them, by which two died. Drs. Sabin and Smith, of that place, attributed this disease to the saleratus in their food. He also states, that in a family of about ten persons, it is not an uncommon thing, in many places in Massachusetts, to use about a pound of saleratus per month. He believes that sub-inflammation of the alimentary canal is produced by the free use of this alkali, both in children and adults, and that of the 300,000 children under ten years of age, who die annually in the United States, at least 100,000 might survive but from the effects of saleratus.

From his statements it appears to us that those whom he describes as using saleratus for cooking, to make light biscuits, puddings, &c., do not use acid with it, but simply the saleratus. Now this alkaline substance will not make light biscuit unless it is used with an acid of some kind. The soda and acid unite, setting the carbonic acid gas in the saleratus free, thus producing effervescence—not fermentation—which raises the dough and makes the bread spongy, leaving a bitter salt in the bread, (the tartrate of soda, if tartaric acid is used with the saleratus). There must be great danger indeed, in such a free and ignorant use of saleratus, without an acid, as a pound per month in any family. It is a common thing, however, in the country, to use sour milk with the saleratus, and there is not so much danger in its use when so combined, but, we must say, that saleratus, and those combinations of chemicals which merely produce effervescence, and not vinous fermentation, should not be used in cooking. Experience is the only way to tell what is good and what is evil to use as food or drink, and so far as our experience goes, and we have paid close attention to it for the past three years, we must conclude that yeast alone should be used for raisings in domestic cookery.

Wood Gas Controversy.

We perceive that Prof. C. G. Page, attorney for Dr. McConnell, publishes a long advertisement in the Washington *Sentinel*, relative to the claims of his client, and Lieut. Porter's for making gas from wood. An engraving with the specification of Lieut. Porter's patent will be found on page 37, this volume of SCIENTIFIC AMERICAN, where his full claims are presented and the whole truth of the matter set forth. All who wish proper information on this subject will find it there.

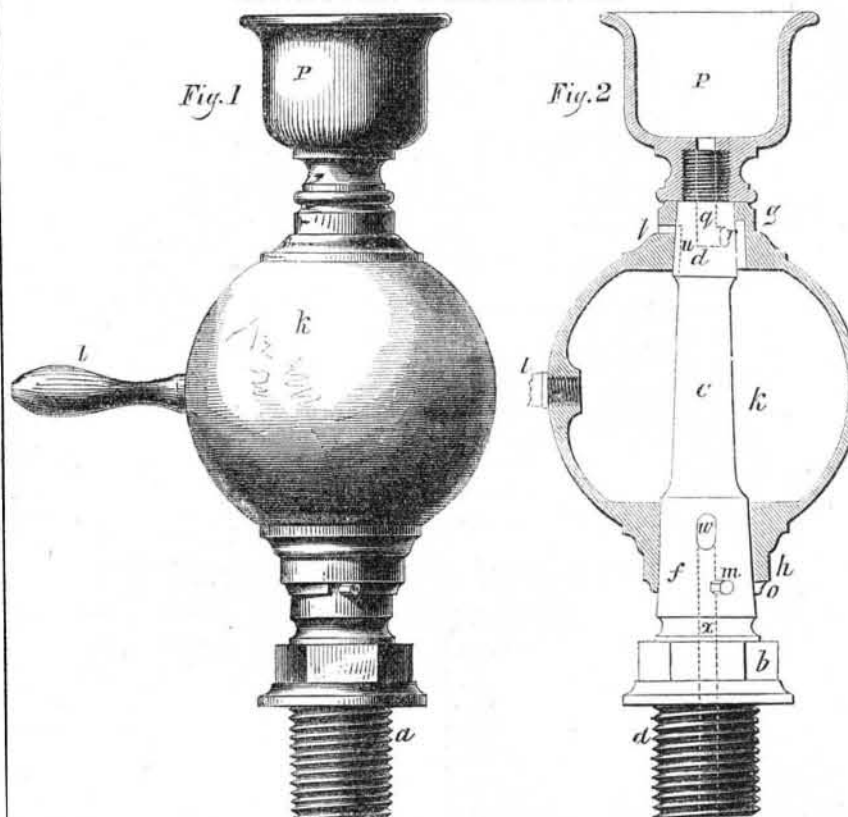
The Ericsson.

This ship, we perceive, is still reported to be getting in her new steam engines, which have been substituted for the hot-air ones. It is supposed that she will be ready for sea about the middle of next month, as 150 men are employed on her. The old proprietors, who were said to have asserted, "they were perfectly satisfied with the success of the hot-air engines," are the proprietors still, thus showing a liberal consistency in all their changes.

Locusts.

Dr. Gideon B. Smith, of Baltimore, says the seventeen year locusts will make their appearance this year along the eastern coast of Maryland, and to Carlisle, Pa., and also in Kanawha, Va., and Lexington, Ky. They can be found in all the above places, wherever trees, shrubbery, or forests grew in 1838, by digging down one or two feet. For more information on this subject, see Dr. Smith's illustrated description of this locust, on page 212, vol. 6 SCIENTIFIC AMERICAN.

IMPROVED LUBRICATOR.



The annexed figures represent an improvement in apparatus for lubricating the valves and pistons of steam engines, for which a patent was granted to Joshua Register, on the 5th of last December.

Figure 1 is an outside elevation; and figure 2 is a vertical section of figure 1. The same letters refer to like parts.

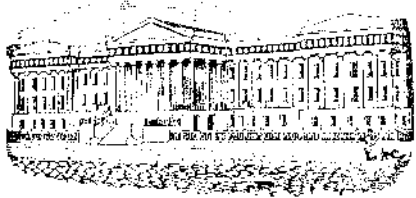
The nature of the invention consists in combining the reservoir for containing the oil, or lubricating fluid, with a central conical spindle or stem, by means of two sockets or bearings, one of which is at the upper, and the other at the lower part of the reservoir. In these sockets there are passages corresponding with other passages or vents in the central stem, and are opened and shut by moving the reservoir around the central stem. One of the upper passages or vents controls the admission of the oil into the reservoir, while at the same time the other passages of the upper socket permits the air to escape from the reservoir while the oil is being poured into it. And the passage in the lower part of the reservoir and central stem controls the admission of the oil into the place to be lubricated. These passages are so placed relatively to each other, that when the upper passages are open, the lower passages are closed, it is therefore impossible for both sets of passages to be open at one time, which precludes the possibility of the contents of the reservoir being forced out by the pressure of the steam, which would take place were both the top and bottom passages open at the same time.

The apparatus is secured by screwing the shank, *a*, into the steam chest, or other part of the engine or machine requiring internal lubrication, and to facilitate this purpose, the part, *b*, is made with flat sides, upon which the jaws of a wrench may take hold. In figure 2, *c* is the central stem, of which *d* is the upper, and *f* the lower conical bearing, these bearings fit accurately into their respective sockets, *g* and *h*, of the reservoir, *k*, which is moved around a central stem by means of the projecting handle, *l*, which is screwed into the reservoir, *k*. The extent of the motion of the reservoir necessary for opening and closing the several passages is regulated by the stud, *m*, and may be about one-quarter

of a turn: a portion of the socket, *h*, is removed so as to present the two shoulders, *n* and *o*, to come against the stud, *m*, and thus limit the vibration of the reservoir, *k*; if on bringing the shoulders, in contact with the stud, *m*, the upper passages should be open, then will the lower passages be shut, but on reversing the position of the reservoir, and bringing the shoulder, *o*, into contact with the stud, *m*, then will the lower passages be opened and the upper passages be closed, in which case the oil or fluid within the reservoir will pass down through the central stem into the cavity of the machine requiring lubrication.

In filling the reservoir with the oil or lubricating fluid, it is first poured into the cup or funnel, *p*, from which the oil or fluid passes to the reservoir, *k*, by means of the vent or opening, *q*, which first passes centrally down through the stem till it meets the lateral vent or opening, *r*; when the opening, *r*, is opposite the slot, *s*, as shown in figure 3, the oil flows from the cup or funnel, *p*, into the reservoir, *k*. But when this receiving passage between the oil cups, *p*, and the reservoir, *k*, is open, there is also open the small vent, *t*, through the side of the socket, *g*, for the escape of the confined air, which would otherwise prevent the ingress of the oil or other fluid to the reservoir. This vent, *t*, is also brought into communication with the reservoir by means of the slot-form passage, *u*, cut out of the side of the upper bearing, *d*. The oil or fluid within the reservoir, *k*, passes off to the cavity of the machine requiring to be lubricated by passing down through a slot forming a passage communicating with the opening, *w*, in the side of the lower bearing, *f*, and connecting with the central perforation, *x*, in the lower part of the stem, *c*.

The advantages of this improved lubricator over those which have separate cocks, and requiring separate manipulations, consist in its compactness of form, certainty of operation, and simplicity of movement, the mere revolving of the reservoir around the central stem answering all the purposes of opening and shutting the air cock, the receiving cock, and the discharging cock, and that, too, without error or mistake.



[Reported Officially for the Scientific American.]

LIST OF PATENT CLAIMS

Issued from the United States Patent Office.

FOR THE WEEK ENDING JANUARY 23, 1855.

HERNIAL TRUSSES—W. M. Bonwill, of Camden, Del. : I do not claim the hinges, F, F', the adjustability of the pad...

GAS HEATER—W. F. Shaw, of Boston, Mass. : I am aware that argand burners and some fire places have their flame or fuel chambers supplied with an internal and external currents of air.

ROLLERS FOR CORRUGATING SHEET METAL—S. G. Booth, of New York City : I do not claim making the rollers of adjustable sections for the purpose of repeating bending operations upon a piece of sheet metal.

HAY MAKING MACHINE—G. A. Brown, of Middletown, N. Y. : I claim the arrangement of the rollers in manner and form as described, or in any other manner or form substantially the same.

INSTRUMENT FOR CUTTING OUT STONE—H. J. Brunner, of Nazareth, Pa. : I claim cutting out slate or other stone from quarries by means of a cutter stock, B, provided with cutters, D, D', and having a reciprocating motion given it by means of a toothed wheel, F, in which pinions, E, N, are made to gear alternately in consequence of the arrangement of the teeth on the periphery of said wheel, P, as shown.

ROLLERS FOR CURTAINS—D. H. Chamberlain and John Hartshorn, of Boston, Mass. : We do not claim the application of a torsion spring to one end only of a curtain roller. But we claim our improved manner of applying the spring to the curtain roller, that is, extending it axially entirely through the roller and its two journals, and affixing it to the roller, and both its brackets or journals extended from and fastened to them substantially as specified.

CARRIAGES—George R. Comstock, of Manheim, N. Y. : I claim the employment of fills in combination with a pole, which pole has attached to it an elliptic spring, capable of a motion around the pole, to which spring, as well as to the fills, the draught animals are to be attached by the harness, substantially as set forth.

CARRIAGE SEATS—G. R. Comstock, of Manheim, N. Y. : I claim the method of adjusting the load carried in two-wheeled vehicle so as to keep the pressure upon the animal drawing the same, equal or nearly so, whether the carriage be moving upon level or uneven ground, by shifting the seat or body backward or forward, using an axis with toothed quadrants operating upon toothed racks attached underneath said seat or body (or by the use of any mechanical equivalent) said axis being maneuvered by a lever which passes up through the arm of the seat or upper body, substantially as set forth.

LOOMS—James Eccles, of Philadelphia, Pa. : I claim moving and holding the picker forward in movable shuttle boxes, for the purpose of stopping the shuttle thereby, and causing the picker to stop, the shuttle to receive the threads, substantially as described and for the purpose set forth.

MEANS FOR HOLDING WINDOW BLINDS—H. A. Frost, of Worcester, Mass. : I claim the application to window blinds of a semi-circular spring rod which may bear upon a wide staple beneath the blind which acts upon it at all times, as described, so that the blind may be retained in any desirable position.

MARQUETRY—L. F. Groehl, of Philadelphia, Pa. : I claim the marquetry described, in which the different pieces of which it is composed, are firmly united at their adjoining edges, so as to secure the advantages described.

HOT AIR FURNACE—Michael Greenebaum, of Chicago, Ill. : I claim the arrangement of the cylinder, I, in the drum, K, in combination with the perforated partition, N, and the pipes, P, R, and valve, S, for the purpose of regulating and equalizing the radiation of heat of hot air furnaces, substantially as set forth.

CUTTING AND GRINDING VEGETABLES—Wm. H. Harn, of Canfield, Pa. : I claim the slicing or cutting apparatus, consisting of a cylinder armed with knives, and working in combination with stationary knives, substantially as described, in combination with a crushing or grinding apparatus, substantially as described, or the equivalent thereof, the whole being so constructed as to slice the fruit or vegetables and then crush or grind them in the same machine, as described.

BOOK BRACE—Wm. Ives, of Buffalo, N. Y. : I claim the combining with the brace the pointed spring bolts and spurs, substantially in the manner and for the purpose described.

LIFTING JACKS—S. G. Jones, of Fitzwater Town, Pa. : I do not claim the arrangement of the parts, A, B, C, irrespective of their relation and adaptation to each other.

near the lower end of the said sliding piece, whilst the upper end of the same piece is adapted to slide within the loop, C, formed on the upper end of the main post, all as and for the purpose described.

ROLLING IRON SHUTTERS—Chas. Mettam, of New York City : I do not claim as new or irrespective of the relative position of the protruding arch, and the description of shutter to which the described form of flat refers, giving a flat a curved or arched form to increase strength, as a different disposition of the protruding arch and combination of curves have before been used in blinds otherwise arranged than to roll up.

METAL FOLDING MACHINES—Daniel Newton, of Southington, Conn. : I claim the application to folders (for sheet iron, tin, copper, &c.) of three or more pairs of steel fingers, all of the same shape, one half of which are fastened to the plate which turns the fold, and the other half secured in a hollow underneath the same, the whole acting together, thereby drawing and holding the plate firmly on the metal whilst the fold is turning.

MACHINES FOR WASHING PAPER STOCK—H. W. Peaslee, of Malden Bridge, N. Y. Patented in England Sept. 20, 1854 : I do not claim as new the revolving screen cylinder, an stationary trough, with or without elevating hooks or lifters, arranged spirally or otherwise in the cylinder for the purposes specified, nor yet otherwise than as arranged and combined, the oblique curbs or pieces to direct the discharge from the cylinder, as such devices, differently arranged, employed, and combined, have before been used in ore washing machines.

FIRE ENGINES—A. W. Roberts, of Hartford, Ct. : I do not claim the brakes and levers; neither do I claim the valves or cylinders. But I claim the arrangement of the valves of pumps for fire engines, and other purposes, in the manner substantially as described.

COMPOUND RIFLING MACHINE—E. K. Root, of Hartford, Conn. : I claim the method of giving the motion to the outer stocks for giving the increasing twist, by means of the connecting rod or its equivalent turning on a fixed center, and described at the point of its connection with the cutter carriage which moves in a tangent line, substantially as specified.

BUCKETS FOR CHAIN PUMPS—Edmund Morris, of Burlington, N. J. : I claim the combination and arrangement of the gum ring with the cone, substantially as described, for the purpose set forth.

MATCH MACHINE—Leopold and Joseph Thomas, of Alleghany City, Pa. : I claim, first, the use of the sliding carriage with the feed rollers, for the purposes described.

PADDLE WHEELS—John U. Wallis, of Danville, N. Y. : I do not claim the employment of oblique paddle floats, nor arranging the oblique paddle floats in pairs, in the form of the letter V, otherwise than as described.

OSCILLATING ENGINES—G. F. Wood, of Ulysses, N. Y. : I do not claim the induction of the steam by the oscillation of the cylinder bringing its ports at proper times into and out of communication with ports in the ends of the induction and suction pipes or in disks connected therewith.

HAND RAILS FOR STAIRS—J. M. Bull, of Sidney, Ohio : I claim joining a series of blocks of wood or other material together, at such angles as will form any circle or curve that may be required, and secure the same together by means of a rod provided with a screw and nut at each end or any other mechanical equivalent, all as represented and for the purpose substantially specified.

FOUNTAIN PEN—N. A. Prince, of Brooklyn, N. Y. : First I claim the elastic spring unfastened in the feeding tube, whether the said spring be placed under or above the pen, it being so placed that it is made to vibrate by the action of the pen in writing, substantially as described.

METALLIC COFFINS—Martin H. Crane (assignor to Crane, Bred & Co.), of Cincinnati, Ohio.

PARLOR OPEN FRONT STOVES—N. S. Vedder, of Troy, N. Y. (assignor to G. F. Filley, of St. Louis, Mo.)

PARLOR STOVES—N. S. Vedder and Ezra Ripley, of Troy, N. Y. (assignors to G. F. Filley.)

COAL STOVES—Conrad Harris and P. W. Zoiner, of Cincinnati, Ohio.

NOTE—In the above list of patents we notice the names of ELEVEN PATENTEES whose specifications and drawings were prepared at this office. It is gratifying to us to recognize the names of so many of our old friends in the weekly records from the Patent Office; and it is more than equally pleasing to them, no doubt, to thus receive evidence of their reward for the sleepless nights and days' labor they have spent in conceiving and bringing forth their inventions.

DESIGNS. METALLIC COFFINS—Martin H. Crane (assignor to Crane, Bred & Co.), of Cincinnati, Ohio.

[This is a small but very pretty invention for the purpose specified.]

IRON WINDOW BLINDS—Henry Blakely, of New York City : I claim the described method of fastening the metal blinds or slats to the frame, by securing their ends or the pivots on which they turn, in the eyes in such manner as will prevent the blinds from being taken out by any force applied to bend them, short of the breaking strength of the several parts, the whole being constructed, substantially in the manner and for the purposes set forth.

[A description of this invention may be found on another page.]

LOOMS—Geo. Copeland, of Lewiston, Me. : I claim, first, placing the cams, G, G', and G'' G''', which operate the lever beams, K, K', to maintain the proper position of the cam shafts, for one mode of operating the harnesses, and changing their position for the other mode of operating, by means of a spring or springs, c, c', or equivalents, or hook, e, and a disk, N, or equivalent, carrying a stud, k, all operating and acted upon substantially as set forth.

Second, I claim the method of securing the lever beams, K, K', to maintain the proper position of the cam shafts, for one mode of operating the harnesses, and changing their position for the other mode of operating, by means of a spring or springs, c, c', or equivalents, or hook, e, and a disk, N, or equivalent, carrying a stud, k, all operating and acted upon substantially as set forth.

Fourth, though I do not claim the employment of two race ways in the same loom, with two shuttles which move simultaneously, one leaving its thread in the upper and the other in the lower of two sheas opened one above the other, I claim, for the purpose of throwing and catching the two shuttles simultaneously by pivoting the shuttle boxes to the ends of the lay, substantially as described, so that they may by a vibrating or swinging motion move opposite to the upper or lower race way, as required.

Fifth, I claim the manner described, of operating the two shuttle boxes, so that both may move simultaneously to and from the position for throwing and catching the shuttles, by connecting both with a lever, L, which is arranged to work under the lay, and receives the required motion from a treadle and cam, or other analogous means.

Sixth, I claim the slots in the bars, p, p', which form the upper race way, for the purpose of enabling the web threads which is being carried through the warp, to draw directly or nearly so from the filling point of the cloth or fabric.

[A description of this very important invention may be found in No. 10, present Vol.]

COTTON SEED PLANTERS—Isaac Williams and Isaac W. Bauman, of Alleghany Co., Pa. : We are aware that one or more shafts with teeth have been placed within the hopper, and that a single cylinder, with a series of spirally set teeth has been employed in the throat of the hopper of seed planters, wetherfore do not claim these devices.

But we claim the use and combination of two cylinders, placed one above the other, not in the hopper, but in the throat thereof, furnished with a row of long teeth, and the other with a row of short teeth, the teeth on each cylinder being placed helically around it for the purpose of separating and distributing or scattering the cotton seeds in the manner described.

REPEATING CANNON—Saml. Huffman, of Charlestown, Ill. (assignor to himself and D. O. Hare, of Washington, D. C.) : I claim, first, the movable forward section, c, with its flange, g, in combination with the revolving rear sections, i, secured to the plate, d, constructed and arranged substantially as described and for the purposes specified.

Second, the flange, n, in combination with the projection, m, on the plate, a, substantially as described, and for the purpose specified.

Third, the jacket or cold water tank, a2, substantially as described and for the purpose specified.

Fourth, the vent closer, constructed and arranged substantially as described and for the purposes specified.

BUCKETS FOR CHAIN PUMPS—Edmund Morris, of Burlington, N. J. : I claim the combination and arrangement of the gum ring with the cone, substantially as described, for the purpose set forth.

MATCH MACHINE—Leopold and Joseph Thomas, of Alleghany City, Pa. : I claim, first, the use of the sliding carriage with the feed rollers, for the purposes described.

Second, the combination of sliding self-shoving head levers, a, a', for the purpose of packing the finished matches in boxes.

Third, the carrier wheel and roller for applying the phosphoric composition to the matches by machinery.

PADDLE WHEELS—John U. Wallis, of Danville, N. Y. : I do not claim the employment of oblique paddle floats, nor arranging the oblique paddle floats in pairs, in the form of the letter V, otherwise than as described.

But I claim, first, the attachment of the oblique paddle floats, each by one edge only to opposite sides of a wheel, A, or its equivalent, substantially as described.

Second, I claim the attachment of the paddle floats to the wheel, A, or its equivalent, by hinge joints, for the purpose of enabling them to be adjusted at various degrees of obliquity by screws, a, a', or their equivalents, and to adapt their position to the direction of the revolution of the wheel, as set forth.

[A description of this invention will be published as soon as the several foreign patents, which are in progress of prosecution are consummated.]

OSCILLATING ENGINES—G. F. Wood, of Ulysses, N. Y. : I do not claim the induction of the steam by the oscillation of the cylinder bringing its ports at proper times into and out of communication with ports in the ends of the induction and suction pipes or in disks connected therewith.

But I claim the arrangement of the separate induction and suction valves, I, E, communicating with separate induction and suction ports and passages through the two trunnions, and connected with the same lever, F, substantially as set forth, to move simultaneously and the same distance, for stopping or reversing the engine.

And I also claim the oscillating motion from the cylinder to the valve lever, F, substantially as described, for the purpose of moving the valves for their ports to meet those of the cylinder trunnions, and thus cause a quick induction and suction.

[For description of this invention see another page.]

HAND RAILS FOR STAIRS—J. M. Bull, of Sidney, Ohio : I claim joining a series of blocks of wood or other material together, at such angles as will form any circle or curve that may be required, and secure the same together by means of a rod provided with a screw and nut at each end or any other mechanical equivalent, all as represented and for the purpose substantially specified.

FOUNTAIN PEN—N. A. Prince, of Brooklyn, N. Y. : First I claim the elastic spring unfastened in the feeding tube, whether the said spring be placed under or above the pen, it being so placed that it is made to vibrate by the action of the pen in writing, substantially as described.

Patent Cases.

STOVES—On the 20th inst., in this city, before Judge Betts U. S. Circuit Court on a trial to recover damages for alleged infringement of a patent granted to Phillip Rollhouse in 1849, for a stove, the jury gave a verdict for the defendant, Alexander McPherson, who set up the defence that the stove which he manufactured was not an infringement of Rollhouse's patent.

McCORMICK'S REAPER—In Washington, on the 7th inst, we have been informed that C. H. McCormick applied to the Supreme Court for an injunction to restrain J. Manning & Co., of Illinois, from manufacturing reaping machines. It was opposed by the defendants on the ground of the inconvenience of making out a case so far from home, and a formal application made for trial in the Illinois Circuit Court. The rule was granted for the trial in June next—the defendants being required to give bail and security for damages in case an injunction is issued.

A Cure for Scrofula.

Nicholas Longworth, the famous millionaire and wine-grower of Cincinnati, publishes the following cure for scrofula:—

Put two oz. of aquafortis on a plate on which you have two copper cents. Let it remain from eighteen to twenty-four hours.—Then add four ounces of clear, strong vinegar. Put cents and all in a large mouthed bottle, and keep it corked. Begin by putting four drops in a teaspoonful of rain water, and apply it to the sore. Make the application three times a day, with a soft hair pencil, or one made of soft rags. If very painful, put more water. As the sore heals apply it weaker.

P. S. Capt. Harkness, of our city, the first person cured by this remedy, applied it without water, and he informed me that he thought it would burn his leg off; but the next day it was cured. His was a small sore, and had been attended to for months by one of the best physicians, without any benefit.—[Baltimore Sun.]

[This may be a very good remedy for this evil. Any piece of copper will answer as well as two cents. The product is simply the nitro-acetate of copper.]

Hydraulic Ram Challenge.

Ellis Webb, of Pennsburg, Pa., has sent us a communication in which he proposes a practical test of his new hydraulic ram with any other. He states that he will give \$500 if he does not succeed in raising twenty per cent more water by his than any other water ram, in an experiment to be tried in Chester Co., Pa. The elevation to which the water is to be raised must not be less than seventy feet. The condition is, that if he does raise 75 per cent. more water than the best of the others—only one experiment is to be made—he is to receive \$500. Any person wishing to offer a greater amount of money, that he will not raise 100 per cent. more water than him, will have the privilege of trial in preference to those who wish to offer \$500, for raising but 75 per cent. The trial is desired to take place as soon in April as possible.

Mr. Webb desires us to publish his challenge for three weeks, and receive propositions and the money or stakes from both parties. We have no time to attend to this matter, and cannot receive propositions or stakes; and moreover, our opinions are adverse to challenges, which have the appearance of bets. We, however, would like to see Mr. Webb's hydraulic ram tested with all the others that have obtained any reputation in our country, in order to satisfy us and the public respecting the merits of each. This is the reason why we have noticed the proposition of Mr. Webb.

Preparation for Boots and Shoes.

To one pound of tallow, and half a pound of rosin, melt and add about half an ounce of lamp-black. If the leather is new and dry, moisten it, and apply the mixture as hot as you can bear your finger in it. When the leather once becomes saturated it will be impervious to water, and very durable.